

FORM PTO-1449 U.S. Department of Commerce  
Patent & Trademark OfficeAttorney Docket No.  
313KA/36119CODSerial No.  
10/080,152OIPF  
AUG 23 2002

Applicants: Toru TAKAMIZAWA, et al.

INFORMATION DISCLOSURE  
STATEMENT  
(Use several sheets if necessary)Filing Date  
February 22, 2002Group Art Unit:  
3682

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
✓ JAF	AA	4,713,704	12/1987	Voll, et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
✓ JAF	AK	62-22323	02/1987	Japan				X
✓	AL	62-170363	10/1987	Japan				X
✓	AM	61-145761	07/1986	Japan				Equivalent of US 4713704
✓	AN	60-184426	12/1985	Japan				X
✓	AO	57-97914	06/1982	Japan				X
✓	AP	1-229114	09/1989	Japan				X
✓	AQ	1-266320	10/1989	Japan				X
✓	AR	1-82903	06/1989	Japan				X
✓	AS	3-222661	10/1991	Japan				X

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

	AT						
	AU						
	AV						

EXAMINER J. Footland

DATE CONSIDERED 10-28-03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

**Notice of References Cited**Application/Control No.  
10/080,152Applicant(s)/Patent Under  
Reexamination  
TAKAMIZAWA ET AL.Examiner  
Lenard A. FootlandArt Unit  
3682

Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-6,394,657	05-2002	Takamizawa et al.	384/512
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

FORM PTO-1449

U.S. Department of Commerce  
Patent & Trademark OfficeAttorney Docket No.  
313KA/36119CODSerial No.  
10/080,152INFORMATION DISCLOSURE  
STATEMENT

(Use several sheets if necessary)

Applicants: Toru TAKAMIZAWA, et al.

Filing Date  
February 22, 2002Group Art Unit:  
3682

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	TRANSLATION	
							Yes	No
	AK							
	AL							
	AM							
	AN							
	AO							
	AP							
	AQ							
	AR							
	AS							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

<i>MP</i>	AT	Partial English translations of Japanese patent publications 62-170363, 1-82903, 3-222661, 62-22323, 60-184426, 57-97914, 1-229114, and 1-266320. <i>(no dates)</i>
	AU	
	AV	

EXAMINER

*James A. Fortman*DATE CONSIDERED *5-5-03*

EXAMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

NOTICE OF REFERENCES  
CITED

APPLICANTS

TAKAMIZAWA ET AL.

## U.S. PATENT DOCUMENTS

*		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	A	4,900,958	2/90	KITAHARA ET AL.	384	512	
	B						
	C						
	D						
	E						
	F						
	G						
	H						
	I						
	J						
	K						

## FOREIGN PATENT DOCUMENTS

*		DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS
	L						
	M						
	N						
	O						
	P						
	Q						

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	R	
	S	
	T	

EXAMINER

Lenard A. Footland

DATE

January 22, 1997

Form 892BMR2107

\* A copy of this reference is not being furnished with this office action.  
See Manual of Patent Examining Procedure, section 707.05(a).

Form PTO-1449

U.S. Department of Commerce  
Patent & Trademark OfficeAtty. Docket No.  
313KA/36119COSerial No.  
08/620,541**INFORMATION DISCLOSURE STATEMENT**  
(Use several sheets if necessary)Applicant  
Toru TAKAMIZAWA et al.Filing Date  
March 25, 1996Group  
3503**U.S. PATENT DOCUMENTS**

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
<i>7AP</i>	AA	4,657,412	04/14/87	McLarty et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

**FOREIGN PATENT DOCUMENTS**

		Document	Date	Country	Class	Sub-class	Translation Yes   No
<i>7AP</i>	AK	36 06 042	09/25/86	Germany			
	AL						
	AM						
	AN						
	AO						
	AP						

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	AQ	
	AR	
	AS	

EXAMINER

*Samuel A. Footland*

DATE CONSIDERED

*1-22-97*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

Form PTO-1449

U.S. Department of Commerce  
Patent & Trademark OfficeAtty. Docket No.  
313KA/36119COSerial No.  
08/620,541

RECEIVED

INFORMATION DISCLOSURE STATEMENT  
(Use several sheets if necessary)Applicant  
Toru TAKAMIZAWA et al.

SEP 26 1996

Filing Date  
March 25, 1996Group  
3200  
3503  
GROUP 3500

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
<i>ZAP</i>	AA	3,167,364	1/26/65	Dunn			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

RECEIVED

SEP 20 1996

GROUP 3200

## FOREIGN PATENT DOCUMENTS

		Document	Date	Country	Class	Sub-class	Translation Yes   No
<i>ZAP</i>	AK	2-159536	6/19/90	Japan			
	AL	2-76647	3/16/90	Japan			
	AM	60-196024	12/27/85	Japan			
	AN	57-140912	8/31/82	Japan			
	AO						
	AP						

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	MPB Precision Bearings and Bearing Products, Catalog 1-120-82 (1982)
	AR	
	AS	

EXAMINER

*J. Footland*

DATE CONSIDERED

*1-22-97*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<b>Form PTO-1449</b>  <b>U.S. Department of Commerce</b> <b>Patent &amp; Trademark Office</b>		<b>Atty. Docket No.</b> 313KA/36119CO		<b>Serial No.</b> 08/620,541	
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		<b>Applicant</b> Toru TAKAMIZAWA et al.			
		<b>Filing Date</b> March 25, 1996		<b>Group</b> 3503	

  

U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date (if appropriate)
<div style="font-size: 2em;">ZAP</div> <div style="font-size: 4em;">↓</div>	AA	3,581,362	6/1971	Turner	/	/	
	AB	3,651,550	3/1972	Bennett	/	/	
	AC	4,476,614	10/1984	Pittroff	/	/	
	AD	4,713,704	12/1987	Voll et al.	/	/	
	AE	1,900,958	2/1990	Kitaham et al.	/	/	
	AF						
	AG						
	AH						
	AI						
	AJ						

RECEIVED  
 JUL 24 1996  
 GROUP 3503

  

FOREIGN PATENT DOCUMENTS							
		Document	Date	Country	Class	Sub-class	Translation Yes   No
	AK						
	AL						
	AM						
	AN						
	AO						
	AP						

  

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
	AQ
	AR
	AS

  

<b>EXAMINER</b> <i>L. Fortland</i>	<b>DATE CONSIDERED</b> 1-22-97
------------------------------------	-----------------------------------

  

**EXAMINER:**     Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.



Form PTO-1449

U.S. Department of Commerce  
Patent & Trademark OfficeAtty. Docket No.  
313KA/36119COSerial No.  
08/620,541**INFORMATION DISCLOSURE STATEMENT**  
(Use several sheets if necessary)Applicant  
Toru TAKAMIZAWA et al.Filing Date  
March 25, 1996

Group 3503

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Receiving Date (if appropriate)
<i>MAF</i>	AA	5,045,738	9/3/91	Hishida et al.			JUL - 1 1996
	AB						
	AC						GROUP 3200
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENT DOCUMENTS

		Document	Date	Country	Class	Sub-class	Translation Yes   No
<i>MAF</i>	AK	748,198	4/25/56	Great Britain			
	AL						
	AM						
	AN						
	AO						
	AP						

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	AQ	
	AR	
	AS	

EXAMINER

*J. Footland*

DATE CONSIDERED

*1-22-97*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.



NOTICE OF REFERENCES CITED

APPLICANT(S)

TAKAMIZAWA et al

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
*	A	3581362	6-1971	Turner	29	898.09	
	B	3651550	3-1972	Bennett	29	898.09	
	C	4176614	10-1984	P. H. Hoff	29	898.09	
	D	4713904	12-1987	Uhl et al			
	E	4900958	7-1990	Kutchan et al			
	F						
	G						
	H						
	I						
	J						
	K						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	NAME	CLASS	SUB-CLASS	PERTINENT SHTS. DWG.	PP. SPEC.
*	L								
	M								
	N								
	O								
	P								
	Q								

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

R	
S	
T	
U	

EXAMINER

J. C. Adair

DATE

11/95

\* A copy of this reference is not being furnished with this office action.  
(See Manual of Patent Examining Procedure, section 707.05 (a).)